SEQ ID NO: 1 (Human CatSper 3 cDNA)
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CCTCGAGGGG TGGGGCGGGA CTCAGGAGGA CCGTATGGGG TTTGGAGGGG 0100
CAGTAGCTGC ACTGAGGGGC CGCCCCTCTC CCCTGCAGAG TACCATTCAC 0150
GAGTCCTACG GTCGGCCAGA GGAGCAAGTG CTCATCAACC GCCAGGAAAT 0200
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CTGCTGGTGA TCAATGCCAT CACCATCGCT CTCCGTACCA ACTCCTACCT 0350
GGACCAGAAA CACTATGAGT TGTTCTCTAC CATAGATGAC ATTGTGCTGA 0400
CCATCCTTCT TTGTGAGGTT CTCCTTGGCT GGCTCAATGG CTTCTGGATT 0450
TTCTGGAAGG ACGGCTGGAA CATCCTCAAC TTCATTATCG TCTTTATCTT 0500
GCTCTTGCGG TTCTTCATTA ATGAAATCAA TATTCCCTCC ATCAACTACA 0550
CTCTCAGGGC GCTTCGTCTG GTGCATGTGT GCATGGCGGT GGAGCCCCTC 0600
GCCCGGATCA TCCGCGTCAT CCTGCAGTCG GTGCCTGACA TGGCCAATAT 0650
CATGGTCCTC ATCCTCTTCT TCATGCTGGT TTTTTCCGTG TTTGGAGTAA 0700
CACTCTTTGG TGCATTCGTG CCCAAGCATT TCCAGAACAT ACAGGTTGCG 0750
CTGTACACCC TCTTCATCTG CATCACCCAG GACGGCTGGG TGGACATCTA 0800
CAGTGACTTC CAGACAGAGA AGAGGGAATA TGCAATGGAG ATTGGGGGTG 0850
CCATCTACTT TACCATCTTC ATCACCATCG GTGCCTTCAT TGGCATCAAC 0900
CTGTTCGTCA TCGTGGTGAC CACCAACCTG GAGCAAATGA TGAAGGCAGG 0950
AGAGCAGGGA CAACAGCAAC GAATAACCTT TAGTGAGACA GGCGCAGAGG 1000
AAGAGGAGGA GAATGACCAG CTGCCACTGG TGCATTGTGT GGTCGCCCGC 1050
TCGGAGAAAT CTGGTCTCCT CCAGGAACCC CTTGCGGGAG GCCCCCTGTC 1100
GAACCTCTCA GAAAACACGT GTGACAACTT TTGCTTGGTG CTTGAGGCAA 1150
TACAGGAGAA CCTGAGGCAG TACAAGGAGA TCCGAGATGA ACTCAACATG 1200
TAG                                                   1203
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SEQ ID NO: 2 (Human CatSper 3 Protein Sequence)
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ESYGRPEEQV LINRQEITNK ADAWDMQEFI THMYIKQLLR HPAFQLLLAL  0100
LLVINAITIA LRTNSYLDQK HYELFSTIDD IVLTILLCEV LLGWLNGFWI  0150
FWKDGWNILN FIIVFILLLR FFINEINIPS INYTLRALRL VHVCMAVEPL  0200
ARIIRVILQS VPDMANIMVL ILFFMLVFSV FGVTLFGAFV PKHFQNIQVA  0250
LYTLFICITQ DGWVDIYSDF QTEKREYAME IGGAIYFTIF ITIGAFIGIN  0300
LFVIVVTTNL EQMMKAGEQG QQQRITFSET GAEEEEENDQ LPLVHCVVAR  0350
SEKSGLLQEP LAGGPLSNLS ENTCDNFCLV LEAIQENLRQ YKEIRDELNM  0400
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SEQ ID NO: 3 (Murine CatSper 3 cDNA)
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AGCAAGTGCT CATCAACCGC AGAGATGTCA TGGAGAAGAA GGATGCCTGG 0150
GATGTACAGG AATTCATCAC TCAAATGTAT ATCAAGCAGT TGCTCCGCCA 0200
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TGCAGTCGAT GCCAGACTTG GCCAATGTCA TGGCTCTCAT CCTCTTCTTC 0600
ATGCTGGTAT TCTCTGTGTT TGGGGTCACG CTCTTCGGTG CATTTGTGCC 0650
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ACTGGTGCAT TGTACAGAGG CCCGCAAGGA TACTTCCACT GTCCCCAAGG 1000
AACCACTGGT TGGGGGCCCC CTGAGTAACC TCACAGAAAA GACCTGCGAT 1050
AACTTCTGCT TGGTGCTTGA AGCAATACAG GAGAACTTGA TGGAGTACAA 1100
AGAGATCCGA GAGGAACTCA ACATGATCGT GGAGGAAGTG TCCTCCATCC 1150
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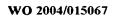
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AGCGCCACCT TCCTAAGCGA GCCCCCAGAA GGGGCTAACA AGCAAGACTT 1250
GATCACTGCG CTGGTCAGCA GGGAAAAGGT GTCTGATTCT AACATAAACA 1300
.TGGTTAACAA ACACAAGTTC AGCCACTGA                        1329
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SEQ ID NO: 4 (Murine CatSper 3 Protein Sequence)
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MSEKHKWWQQ VENIDITHLG PKRKAYELLG RHEEQVLINR RDVMEKKDAW 0050
DVQEFITQMY IKQLLRHPAF QLLLAFLLLS NAITIALRTN SYLGQKHYEL 0100
FSTIDDIVLT ILICEVLLGW LNGFWIFWKD GWNILNFAIV FILFMGFFIK 0150
QLDMVAITYP LRVLRLVHVC MAVEPLARII KVILQSMPDL ANVMALILFF 0200
MLVFSVFGVT LFGAFVPKHF QNMGVALYTL FICITQDGWL DIYTDFQMDE 0250
REYAMEVGGA IYFAVFITLG AFIGLNLFVV VVTTNLEQMM KTGEEEGHLN 0300
IKFTETEEDE DWTDELPLVH CTEARKDTST VPKEPLVGGP LSNLTEKTCD 0350
NFCLVLEAIQ ENLMEYKEIR EELNMIVEEV SSIRFNQEQQ NVILHKYTSK 0400
SATFLSEPPE GANKQDLITA LVSREKVSDS NINMVNKHKF SH*         0442
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SEQ ID NO: 5 (hCatSper3 5' flanking sequence containing basal promoter region)
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GGGCTGCCGG GGGTAGGAGG TGGGGATAAA CAACAGGGCG TGGAGCTCAG 0050
ACAGAAACCC TCTGTGCTTT CCACCCTGCC TGCAGCCCAG CCCTGCTCAA 0100
GCTGGGAGTC CCCTCCATGG AGACACATCA CCTGCAGCCA CCCCCACACA 0150
GCGCAGCCCA CGGACCTCCT TTGGCTCTCT GACAGGTGCT GGGCTGGAGT 0200
TGGGAGCTGG GCTGGGGGCT GGGGTGGGCA CATCCTCATC CTGCTCTTCC 0250
CTCCCACAGA CAGCAGTGAA GAGGCACTGG AAGGAATGGT ACGGGGGCTG 0300
AGGCAGGGTG GCGTGTCCCT CCTAGGCCAG CCACAGCCCC TGACCCAGGA 0350
ACAGTGGCGG AGCTCTTTCA TGCGGCGCAA CCGAGACCCT CAGCTCAATG 0400
AGCGAGTGCA CCGTGTGCGG GCGCTACAGA GCACACTCAA GGTCAGCTGG 0450
GGGGCTCTGG GCACAGCAAG GGACTAGGCT CTGGGCTTCA GGCTTTGGTT 0500
TGCGGCTGTC ACCTCCACCC TGGGCACCAG ACTCCAGACT CCAGACTCAG 0550
CTCCGGACCC TGGGCTTAGC AGCTGACAGC GGGCTCAGCT GTGGACTGGG 0600
CCAGGCTCTG GGTTCCGAGT GGGGATTTGA GTCTCACCTA GGCTCCTCGT 0650
GCCACGCTGG CCAGGTGCTG GCTTCCAGGC ACCGGACCTC CGGAGTGAAG 0700
TCTGGCCTCG GGCTCTGCCC ACTTCCCTGG GTGATCATGG TCCCTTAGCC 0750
CCTCCTCTCC ACACAGGCAA AGCTGCAGGA GCTGCAGGTC CTAGAAGAAG 0800
TGCTGGGTGA CCCTGAGCTG ACAGGAGAGA AGTTCCGCCA GTGGAAGGAG 0850
CAGAACCGGG AGCTGTACTC AGAGGGCCTG GGGGCCTGGG GAGTGGCACA 0900
GGCTGAAGGC AGCTCCCACA TCTTGACCTC TGACTCCACA GAACAGTCCC 0950
CCCACTCCCT GCCCTCTGAC CCTGAAGAGC ACTCCCATCT CTGCCCCCTG 1000
ACCTCAGAGA GCAGCCTCCG ACCTCCTGAC CTCTGACCCT GGCCAGCACT 1050
CTAGCTCCTG ACCTTTGACC CGAGGGCCAC CTCAACCCCA GCTTCTGACG 1100
TGTCCAGGAC AGAGCATCCC TGGATTCTGT TCAGGGTGGG AAGTAGTACT 1150
GCTAGTCATG GTCTCACCCC GAGCTGACCC CTCTGCCTGG GCTTTGTGCC 1200
ACCCTCTCCC TTGCCAAAGA AGAAACTCTC CCCCCAAATC CTCCAACCTC 1250
TGGGGCCACA GCCCTGCCCC TCCAGTTCCT TGGCAGTTCT CCCCCAAACC 1300
AGGTCTGTAC AGGTGTTCTT TATTTTACAT GAGGGCTACT TTCCAACCAA 1350
ATAAAGTCAA TTTTTCTAAG AATGAGTCTA CATGTAACTT TACTTCCATA 1400
TTCGAATTGG AAATCTGCCC CCCTGTGGGG ACTGGGGTGA GTGCTCTTGG 1450
CCAGAGGGTG GGTGGCAGAC CCTTCGTGCA GCCCGTTGGC CTGGGCTCTG 1500
TACCCGAGCT CCAAGCCTGC CAGGATGGTG GGGGATGACC CATGGCTAAT 1550
GAGGGCTCCG ACTCATGTCC ACCTCTCCCC AGCTCTTTGA AGGCTAATGG 1600
TGATCTCCTA CCCCATTCCC GGGGGGCACA CAATGAGAAA CTTCCACTTT 1650
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AGACTGGGCT GGTAGGACAG GGCAGCTGGT GGGGAAGGGT GCAGGTTGAG 1750
GTCTGCCCTG GGAAGGCCCT GGGGAAAACA CTTCTCTCCT TCACTCCTCA 1800
TTCCAGCCTC ACCTCCACCT CCTGGATCCA AGGCAGGGAC ATGTCCCTGT 1850
GACTCCATTC AGGCTGCACG GGAAATCTGA CCTGCTCCCA TCAGCCTCTG 1900
ACTTCCAACC CCAGCCCAGC ATCCCCACAG CATCCCCAGA CTTCCTCTGT 1950
GGGATGCGGA GGAGGGCCAA TGGGAGGAGC TTCTCTCCAG GTTGGAATTC 2000
CTCAGTAGAA TGCAGACGGC TGGAGGTCAC AGAGGCCTCT GTGATATCAC 2050
CACGAGGGGG AGTGAGACCA CTTGGAGTG                         2079
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SEQ ID NO: 6 (hCatSper3 5' UTR)
AAGATTCTTT GAGGAGAAGG AAGAGACTGA GCAAAC

SEQ ID NO: 7 (hCatSper3 3' UTR)

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GCGTCAGAGT CTTCTGGCCT TCACGCCCTC ACCATTTATA AGGCAGAGCC		0100
TGGGCCCCAC AGAGGTCCCC CACCCTATTG GTGGAGGAAC TGGAATCCAG		0150
ACTCCAGGTT CCTTCCATCT CACACAAGGG CACAGCTCGG CCTGGGTCTC		0200
TGTCAGGGCT GCGTGGGAGA GCGAAGCGGG GGTGACGCCA GGGAAGAGGT		0250
GGGAGGGCTG CTTCCCTCCC CTGAGGCCTT CTGAAAGGCA CTCACTGCTC		0300
CACCCCCAGG ATTGTGGAGG AGGTGCGTGC AATCCGCTTC AACCAGGAGC		0350
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CAGTGCGCTC GTTAGCATGG AAAAGGTG		0478